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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/830,816	(04/27/2001	Ahti Muhonen	P279256	2170
909	7590	02/04/2005		EXAM	INER
PILLSBUR	Y WINT	HROP, LLP	DAO, MINH D		
P.O. BOX 1	0500	•			
MCLEAN,	VA 2210)2	ART UNIT	PAPER NUMBER	
•				2682	

DATE MAILED: 02/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	Office Action Commence	09/830,816	MUHONEN ET AL.					
	Office Action Summary	Examiner	Art Unit					
		MINH D DAO	2682					
Period fo	The MAILING DATE of this communication or Reply	n appears on the cover sheet wi	th the correspondence address					
THE - External after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RI MAILING DATE OF THIS COMMUNICATION maions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by seply received by the Office later than three months after the ded patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a r. n. a reply within the statutory minimum of thirt eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
Status								
1)🖂	Responsive to communication(s) filed on 3	<u>13 July 2004</u> .						
2a)⊠	This action is FINAL . 2b)□	This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
· —	Claim(s) <u>1-3,6-16</u> is/are rejected.							
·	Claim(s) <u>4 and 5</u> is/are objected to.							
8)	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)☐ The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by the	ne Examiner. Note the attached	d Office Action or form PTO-152.					
Priority (ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
1.⊠ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
* 0	application from the International Bu	· · · · · · · · · · · · · · · · · · ·						
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
_	e of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)					
	e of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s	s)/Mail Date nformal Patent Application (PTO-152)					
	mation Disclosure Statement(s) (PTO-1449 or PTO/S or No(s)/Mail Date	6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

1. Claims 1,2,3, 6,7,8,14,15,16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huttunen et al. (US 6,356,761) in view of Fried et al. (US 6,094,581).

Regarding claim 1, Huttunen teaches a method for providing location service information related to a mobile station in a mobile communications system (see fig. 3; col. 2, lines 1-48) supporting connections of a first type and a second type (see col. 3, lines 1-7), the method comprising: receiving a request from a requesting entity;

retrieving the location service information related to the mobile station; and providing a response to the request (see col. 3, lines 8-26); and performing, in the retrieving step, at least a first attempt to retrieve the location service information 9see col. 2, lines 42-48) via the preferred type of connection (see col. 3, lines 1-7, and 27-35). However, Huttunen fails to teach the determining a preferred type of connection based on the first set of predetermined criteria. Fried, in an analogous art, teaches determining a preferred type of connection based on the first set of predetermined criteria (col. 7, lines 11-20). In this case, the process of forcing of the mobile unit 101 into micro cell layer inherently requires that a preferred type of connection (i.e. the circuit-switch connection) is determined because of the unavailability of the GPRS connection. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the teaching of Fried to Huttunen in order for the mobile to be able to compatibly handoff to the next cell that uses the same protocol.

Regarding claim 2, the combination of the teachings of Huttunen and Fried teaches the method of claim 1 wherein the first set of predetermined criteria is determined by checking whether the mobile station currently has an active connection via at least one type of connection (reference Fried, col. 7, lines 11-20).

Regarding claim 3, the combination of the teachings of Huttunen and Fried teaches the method of claim 2 wherein the checking is based on examining the request (reference Fried, col. 7, lines 11-20).

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Regarding claim 6, the combination of the teachings of Huttunen and Fried teaches the method of claim 1, wherein the first type of connection is circuit-switched and the second type of connection is packet-switched (reference Silver, Col. 3, lines 1-7).

Regarding claim 7, the combination of the teachings of Huttunen and Fried teaches the method of claim 6, wherein if the mobile station is having an ongoing call, the preferred type of connection is circuit-switched, otherwise it is packet-switched (reference Fried, col. 7, lines 21-46).

Regarding claim 8, the combination of the teachings of Huttunen and Fried teaches the method of claim 6, further comprising establishing circuit-switched communications for the mobile station if the packet-switched communications are not established (reference Fried, col. 7, lines 21-46).

Regarding claim 14, the combination of the teachings of Huttunen and Fried teaches the method of claim 1 wherein the request is received by a Gateway Mobile Location Centre (reference Huttunen, see Fig. 3, ISP 42), and the method further comprises retrieving, by the Gateway Mobile Location Centre the location service information via a Mobile Services Switching Centre (reference Huttunen, see col. 3, lines 8-26), which in turn retrieves the location service information via a Serving Mobile Location Centre, directly, if a circuit-switched connection has been established for the mobile station, and,

otherwise, indirectly, via a Serving GPRS Support Node (reference Huttunen, see Fig. 3, col. 6, lines 27-60).

Regarding claim 15, the combination of the teachings of Huttunen and Fried does not directly teach the limitations of claim 15. However, it would be obvious that, referring to Fig. 3, the method of claim 14 further comprising sending from the Gateway Mobile Location Centre to the Mobile Services Switching Centre the address of the Serving GPRS Support Node in order for all portions of the system to communicate with each other.

Regarding claim 16, the claim has the limitations as that of claim 1, and therefore is interpreted and rejected for the same reason set forth in claim 1.

1. Claims 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huttunen et al. (US 6,356,761) in view of Fried et al. (US 6,094,581) and further in view of Billstrom et al. (US Patent 5,590,133).

Regarding claim 9, the combination of the teachings of Huttunen and Fried teaches that the first type of connection is circuit-switched and the second type of connection is packet-switched (reference Silver, Col. 3, lines 1-7). However, the combination of the teachings of Huttunen and Fried fails to teach that the method of claim 6 further comprises establishing at least one implicit Packet Data Protocol context. Billstrom, in

an analogous art, teaches an establishing of at least one implicit Packet Data Protocol context (Col. 18, lines 28-32). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide the teaching of Billstrom to Huttunen and Fried in order to have a communication system that would be able to provide integrated system concept that provides the new packet data services using TDMA cellular infrastructures to the extent with packet data functional performance requirements as taught by Billstrom (Col. 3, lines 62-67).

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Regarding claim 10, the combination of the teachings of Huttunen, Fried and Billstrom teaches the method of claim 9 wherein establishing the Packet Data Protocol context includes allocating a predefined Network layer Service Access Point Identifier value (Reference Billstrom, Col. 18, lines 12-19).

Regarding claim 11, the combination of the teachings of Huttunen, Fried and Billstrom teaches the method of claim 9 further comprises establishing at least one implicit Packet Data Protocol context between the mobile station and a support node (Reference Billstrom, Col. 18, lines 8-11).

Regarding claim 12, the combination of the teachings of Huttunen, Fried and Billstrom teaches the method of claim 9 further comprises establishing at least one implicit Packet Data Protocol context between the support node and a Serving Mobile Location Centre currently serving the mobile station (Reference Billstrom, Col. 18, lines 28-32; Also see Fig.16).

Regarding claim 13, the combination of the teachings of Huttunen, Fried and Billstrom teaches the method of claim 9 further comprises establishing at least one explicit Packet Data Protocol context between the support node and a Serving Mobile Location Centre currently serving the mobile station (Reference Billstrom, Col. 18, lines 28-32; Also see Fig.16).

Allowable Subject Matter

2. Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 4, the combination of the teachings of Huttunen and Fried teaches the limitations in claim 1. However, Huttunen fails to teach that if the first attempt results in a failure, a second set of predetermined criteria is determined based on a reason for the failure as specified in the claim.

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Response to Arguments

3. Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH D DAO whose telephone number is 703-305-5589. The examiner can normally be reached on 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, VIVIAN C CHIN can be reached on 703-308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Minh Dao wwy Examiner Art Unit 2682 January 27, 2005

VIVIAN CHIN Form asoby patent examiner

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